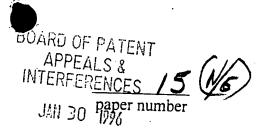
## BOARD OF PATENT APPEALS & INTERFERENCES

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### **REQUEST FOR ACCESS**

1/30/96 904,662 09/08/92 Anderson et		
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# United States ratent [19]

### US005399346A

Patent Number: [11]

5,399,346

Date of Patent: [45]

Mar. 21, 1995

Anderson et al.

[54] GENE THERAPY

[75] Inventors: W. French Anderson, Bethesda; R.

Michael Blaese, Rockville: Steven A.

Rosenberg, Bethesda, all of Md.

The United States of America as [73] Assignee:

> represented by the Department of Health and Human Services,

Washington, D.C.

[21] Appl. No.: 220,175

[22] Filed: Mar. 30, 1994

### Related U.S. Application Data

[63] Continuation of Ser. No. 904,662, Sep. 8, 1992, abandoned, which is a continuation-in-part of Ser. No. 868,794, Apr. 15, 1992, abandoned, which is a continuation-in-part of Ser. No. 807,446, Dec. 13, 1991, abandoned, which is a continuation-in-part of Ser. No. 365,567, Jun. 14, 1989, abandoned.

[51] Int. Cl.6 ...... A61K 48/00; C12N 5/22; C12N 15/63; C12N 15/09

435/240.2; 435/69.5; 435/69.51; 435/69.52; 935/62; 935/22; 935/32; 935/34; 935/57; [58] Field of Search ...... 935/22, 32, 34, 57, 935/62, 79; 435/172.3, 240.2, 69.5, 69.51, 69.52; 424/93.21

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Primary Examiner—Jacqueline Stone Attorney, Agent, or Firm-Elliot M. Olstein; Raymond J.

[57] **ABSTRACT** 

Primary human cells which are genetically engineered with DNA (RNA) encoding a marker or therapeutic which is expressed to be expressed in vivo. Such engineered cells may be used in gene therapy.

14 Claims, 6 Drawing Sheets